Patent Search

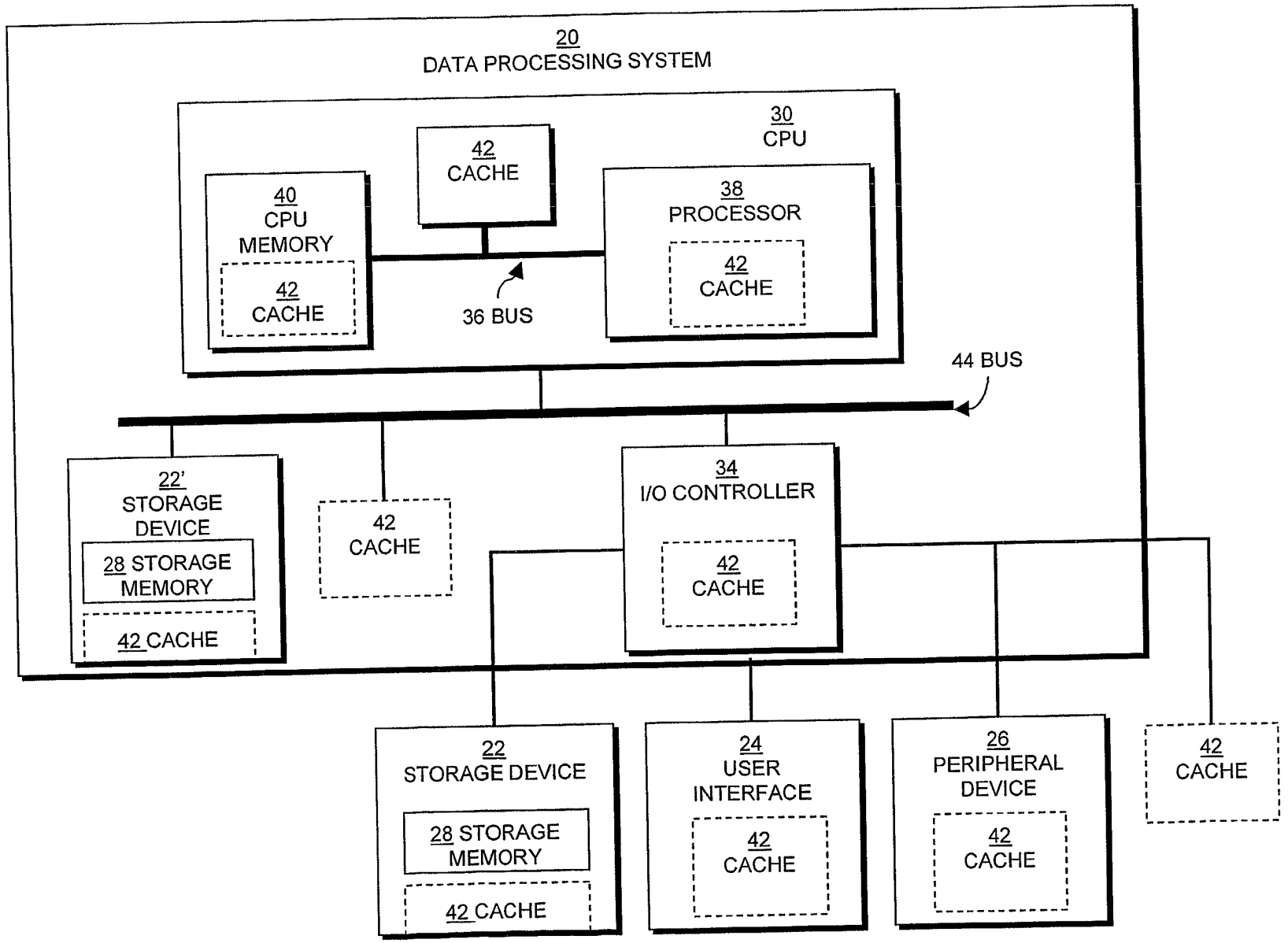

FIG. 1

EXPRESS MAIL

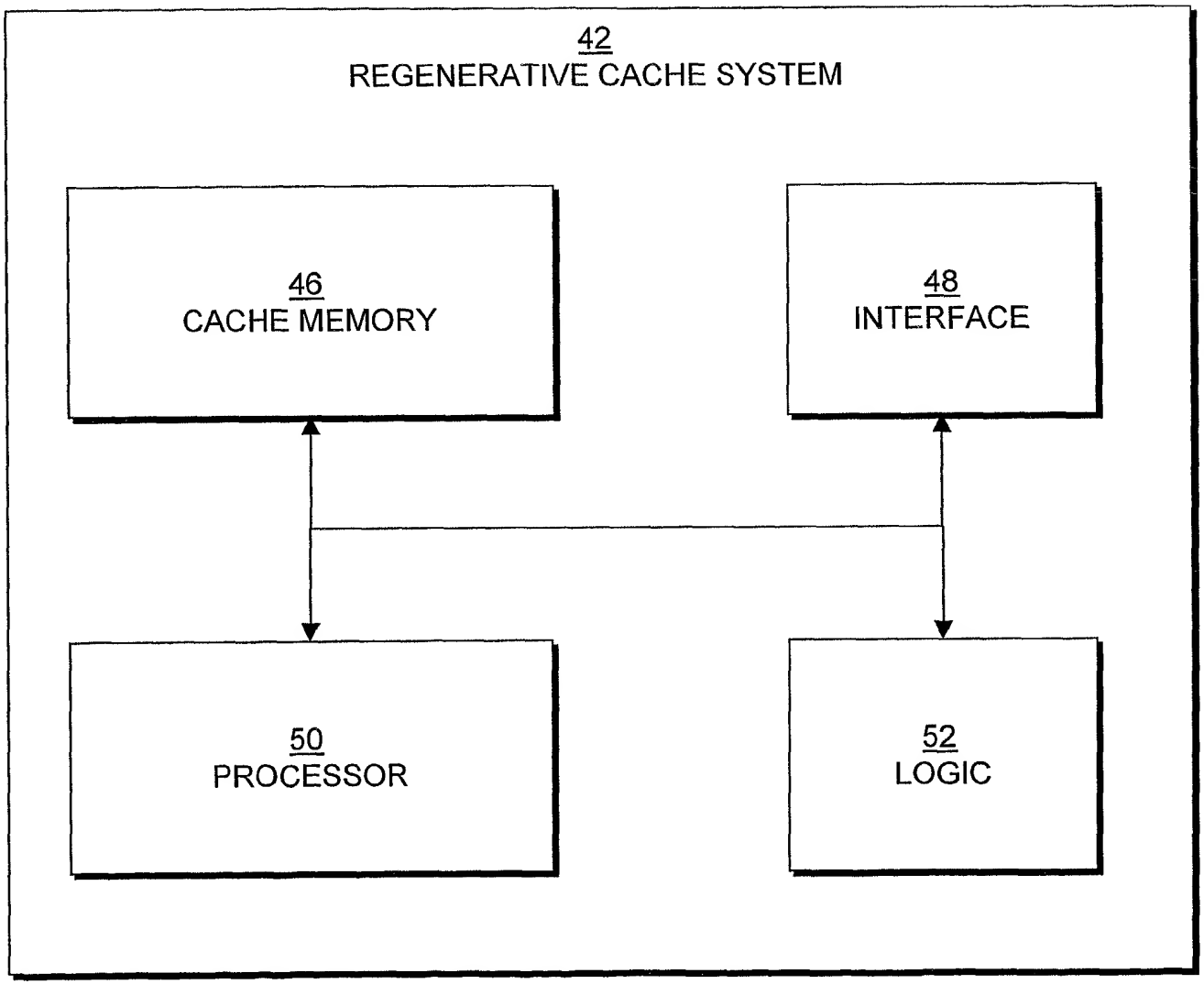

FIG. 2

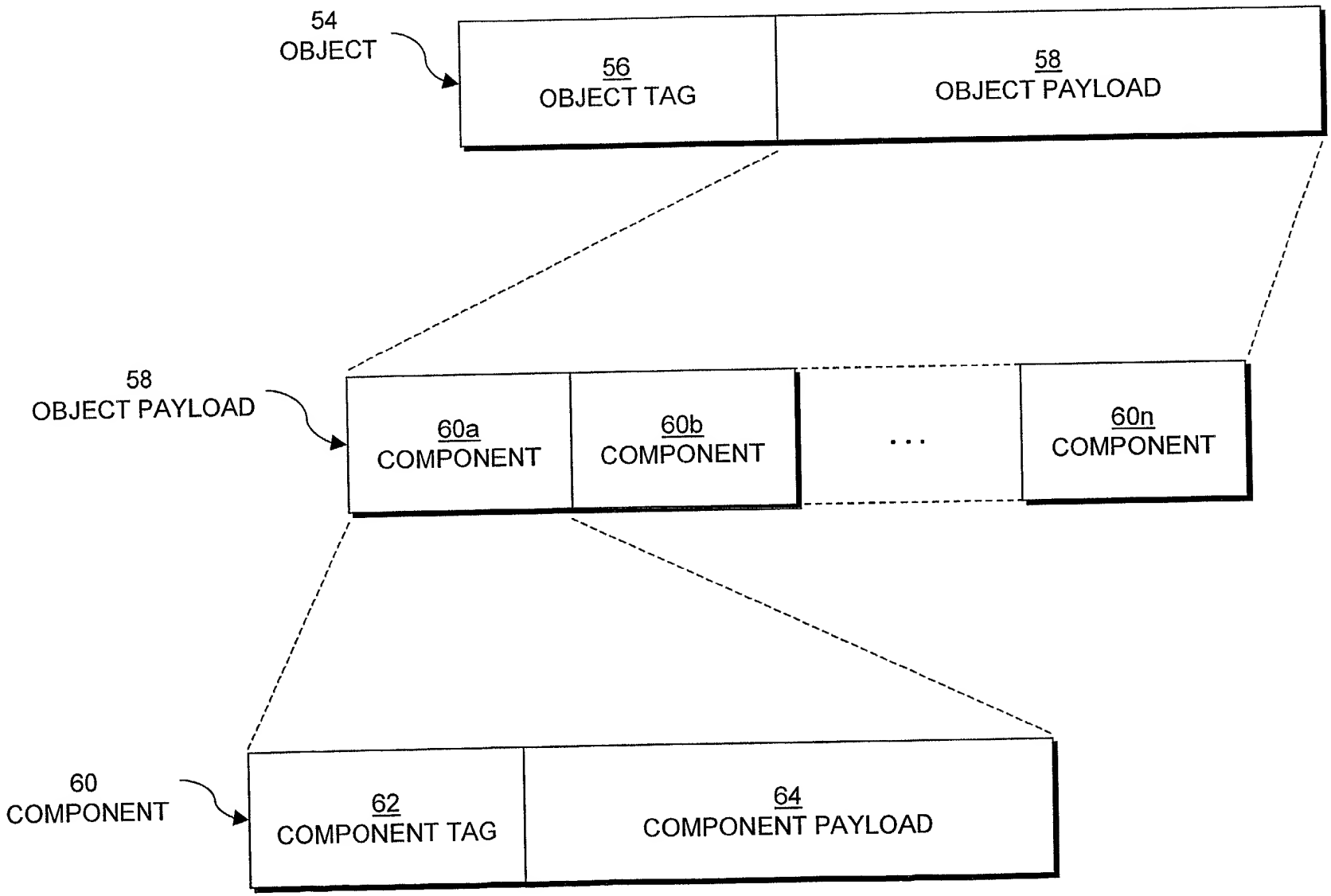
54
OBJECT
56
OBJECT TAG
58
OBJECT PAYLOAD
58
OBJECT PAYLOAD
60a
COMPONENT
60b
COMPONENT
...
60n
COMPONENT
60
COMPONENT
62
COMPONENT TAG
64
COMPONENT PAYLOAD

FIG. 3

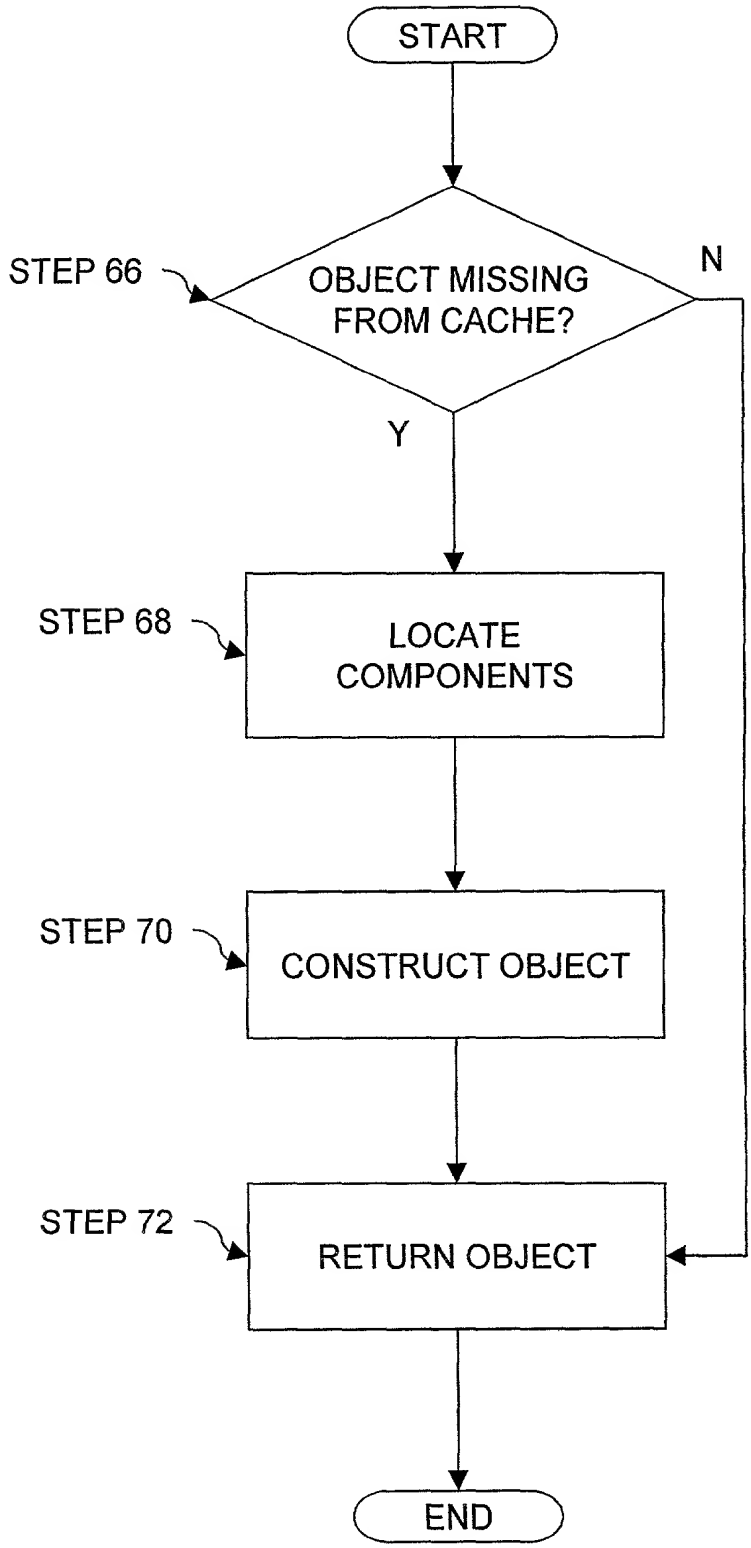
START
STEP 66
OBJECT MISSING FROM CACHE?
N
Y
STEP 68
LOCATE COMPONENTS
STEP 70
CONSTRUCT OBJECT
STEP 72
RETURN OBJECT
END

FIG. 4

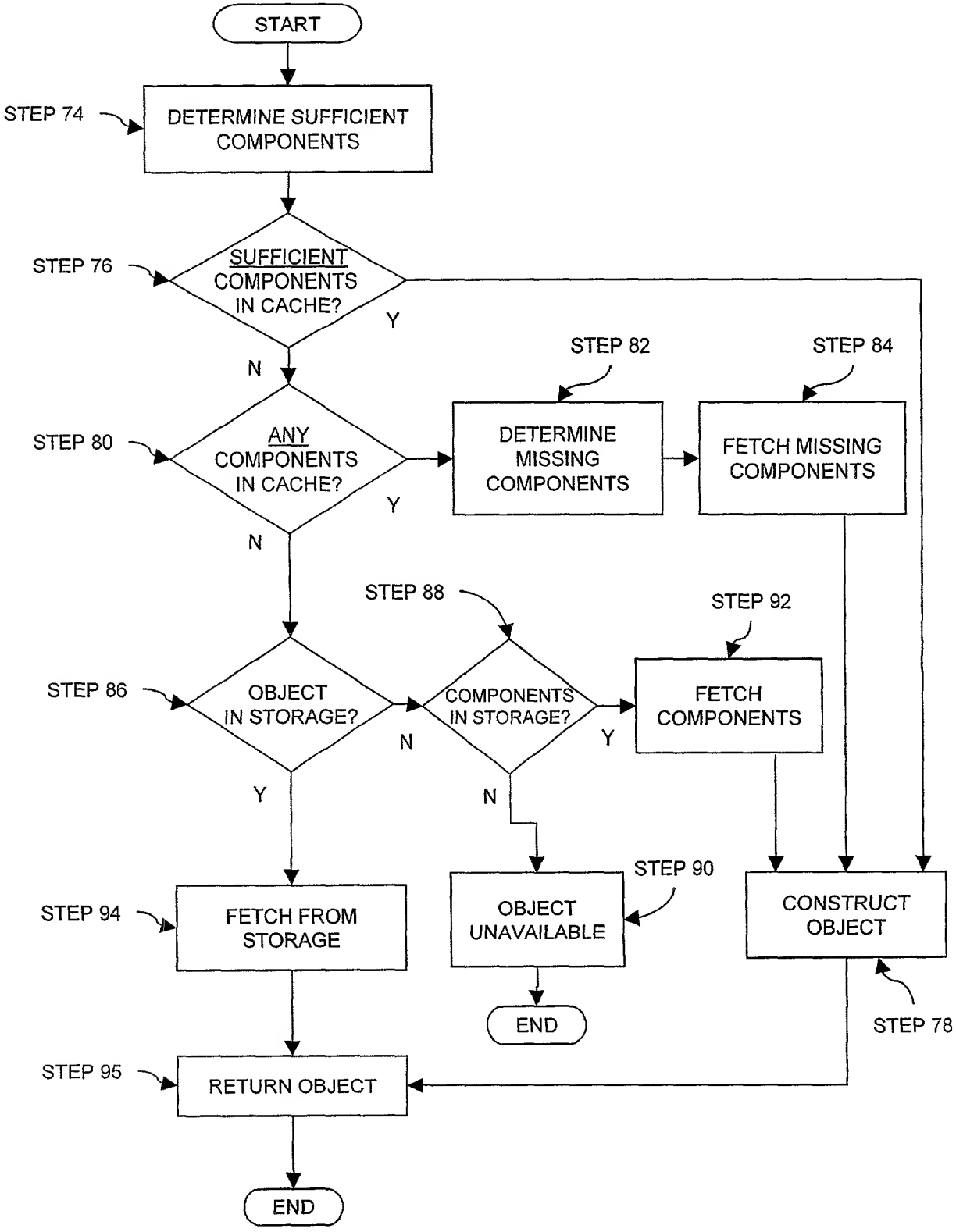
START
STEP 74
DETERMINE SUFFICIENT COMPONENTS
STEP 76
SUFFICIENT COMPONENTS IN CACHE?
Y
N
STEP 82
STEP 84
STEP 80
ANY COMPONENTS IN CACHE?
DETERMINE MISSING COMPONENTS
FETCH MISSING COMPONENTS
Y
N
STEP 88
STEP 92
STEP 86
OBJECT IN STORAGE?
COMPONENTS IN STORAGE?
FETCH COMPONENTS
N
Y
Y
N
STEP 90
STEP 94
FETCH FROM STORAGE
OBJECT UNAVAILABLE
CONSTRUCT OBJECT
END
STEP 78
STEP 95
RETURN OBJECT
END

FIG. 5

PATENT SEARCH

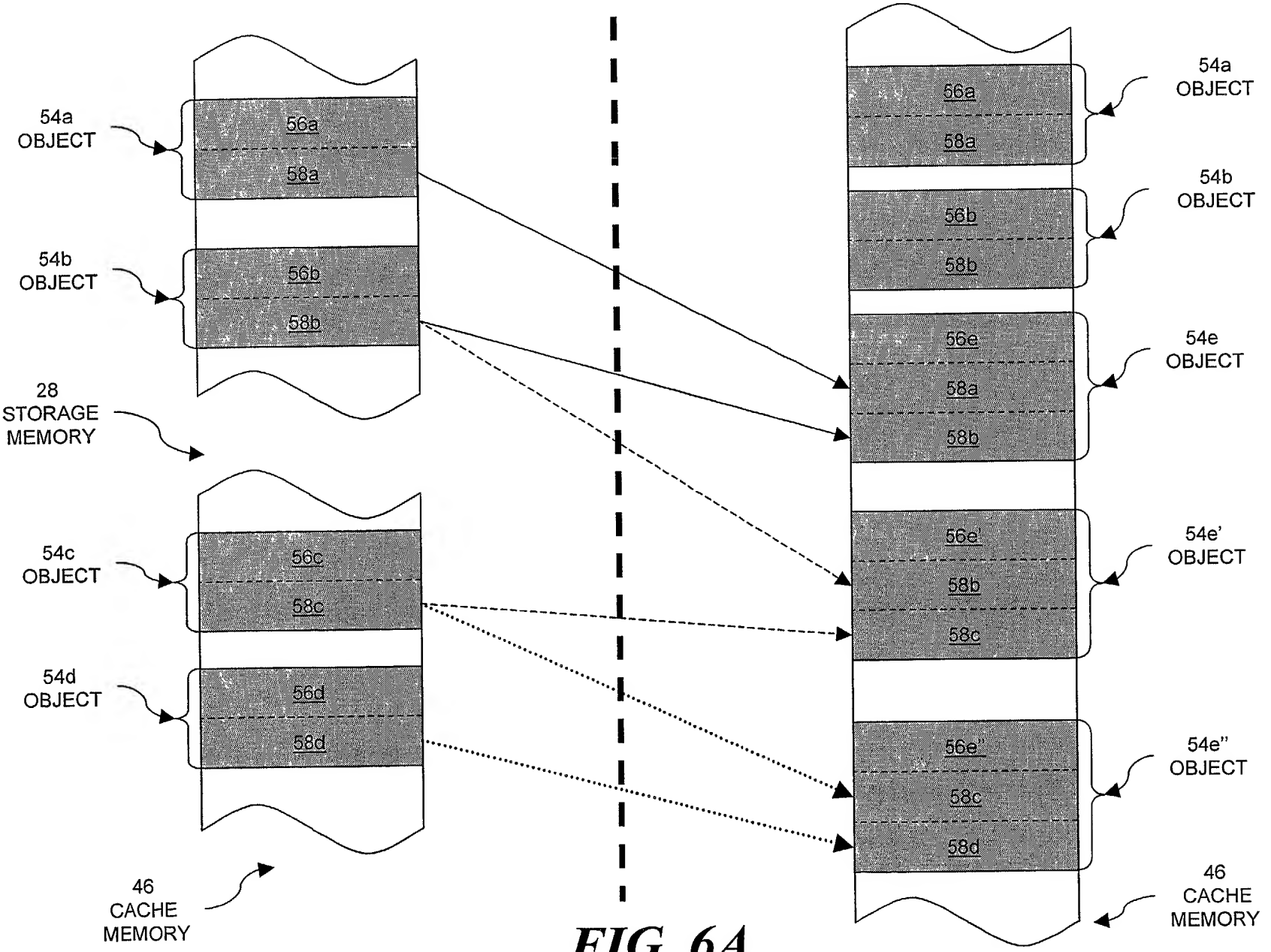

FIG. 6A

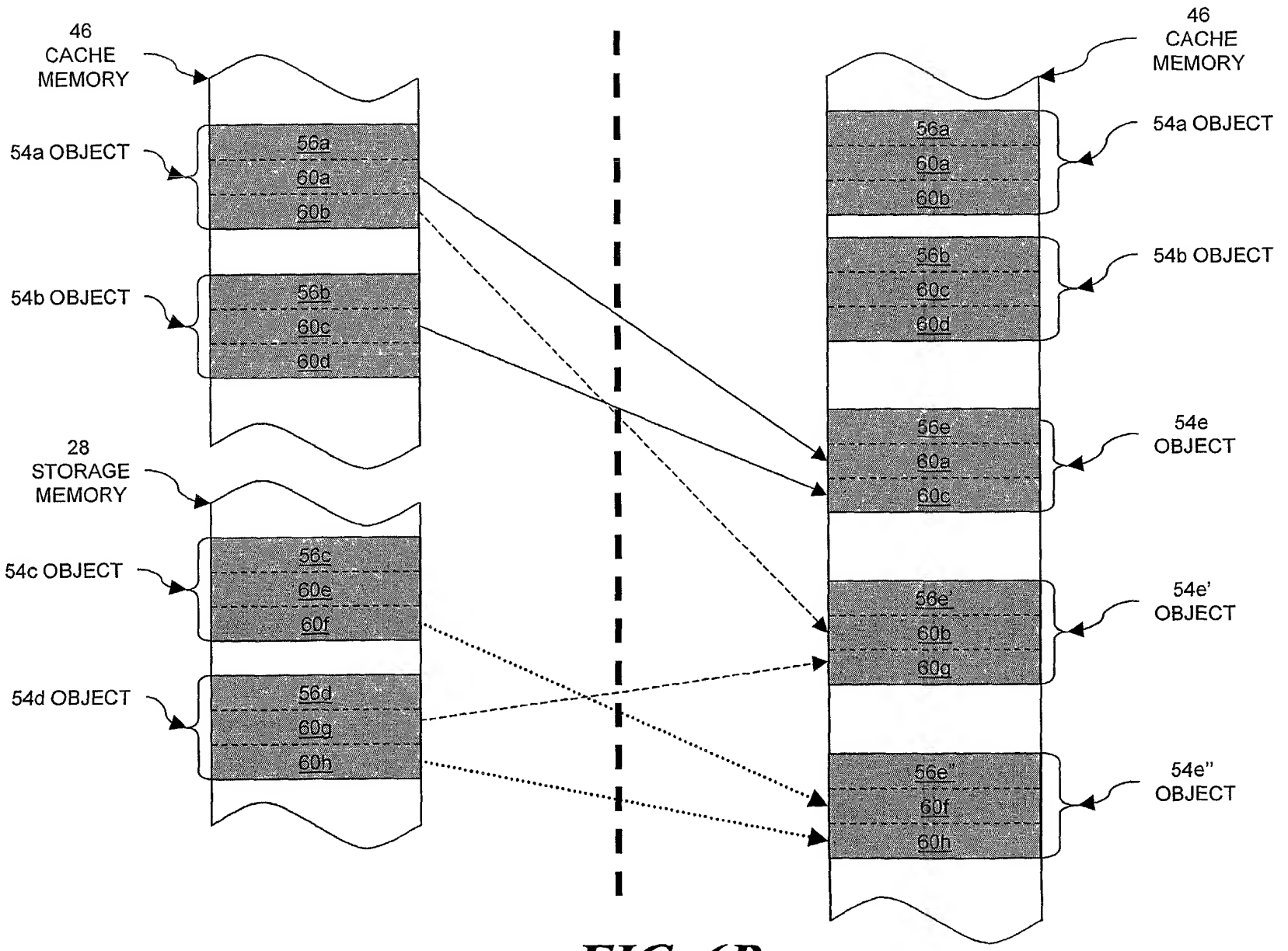
46
CACHE
MEMORY
54a OBJECT
56a
60a
60b
54b OBJECT
56b
60c
60d
28
STORAGE
MEMORY
54c OBJECT
56c
60e
60f
54d OBJECT
56d
60g
60h
46
CACHE
MEMORY
54a OBJECT
56a
60a
60b
54b OBJECT
56b
60c
60d
54e
OBJECT
56e
60a
60c
54e'
OBJECT
56e'
60b
60g
54e"
OBJECT
56e"
60f
60h

FIG. 6B

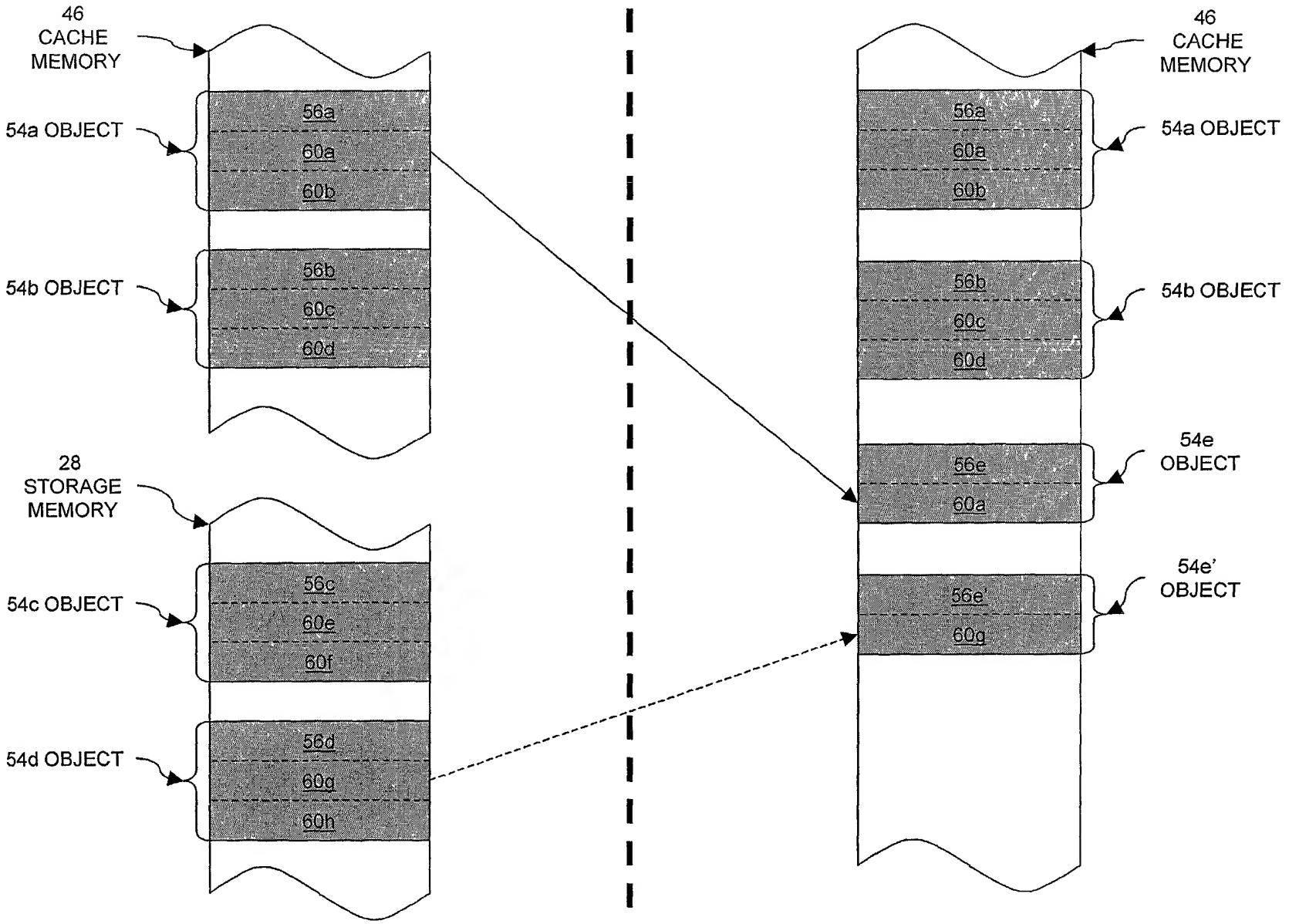
46
CACHE
MEMORY
54a OBJECT
56a
60a
60b
54b OBJECT
56b
60c
60d
28
STORAGE
MEMORY
54c OBJECT
56c
60e
60f
54d OBJECT
56d
60g
60h
46
CACHE
MEMORY
56a
60a
60b
54a OBJECT
56b
60c
60d
54b OBJECT
56e
60a
54e
OBJECT
56e'
60g
54e'
OBJECT

FIG. 6C

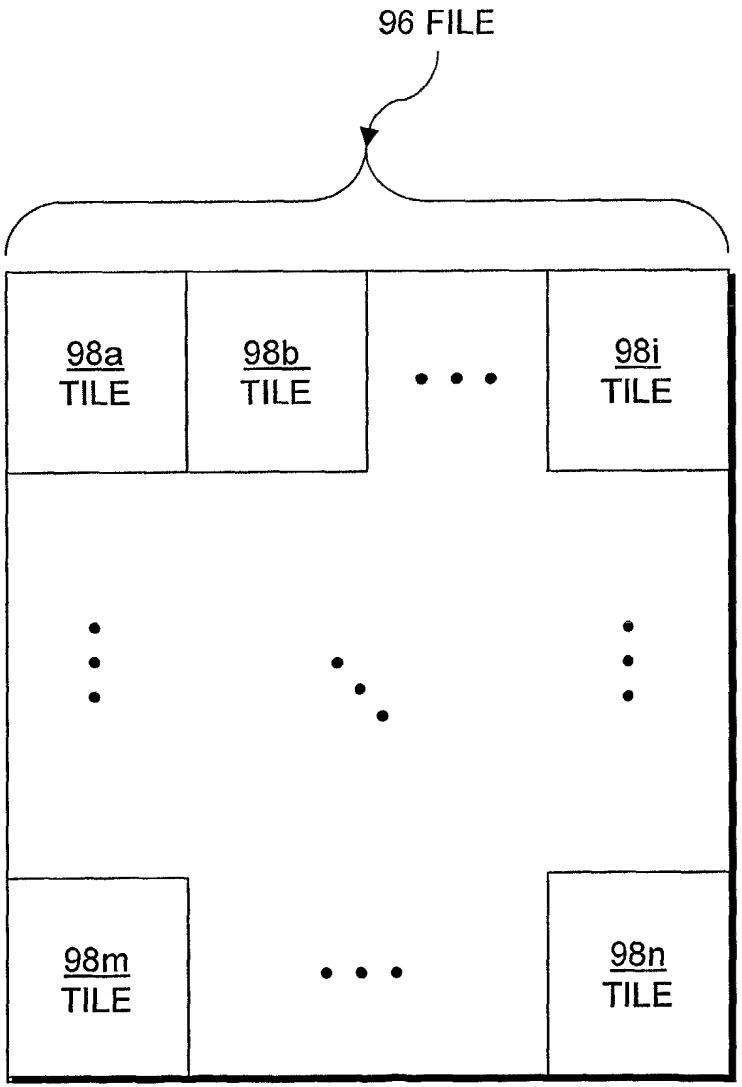

FIG. 7

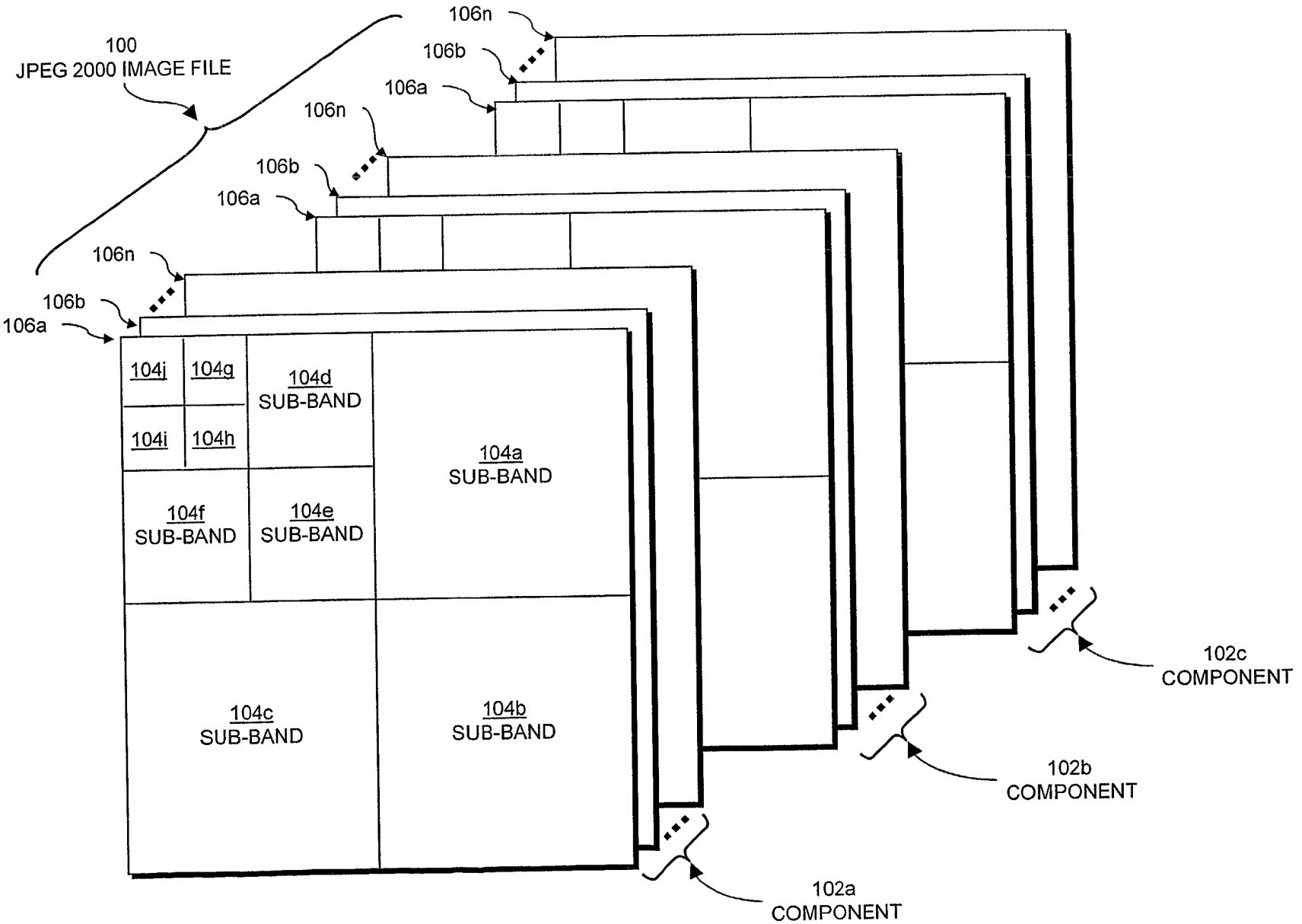
100
JPEG 2000 IMAGE FILE
106n
106b
106a
104j
104g
104d
SUB-BAND
104i
104h
104a
SUB-BAND
104f
SUB-BAND
104e
SUB-BAND
104c
SUB-BAND
104b
SUB-BAND
102c
COMPONENT
102b
COMPONENT
102a
COMPONENT

FIG. 8

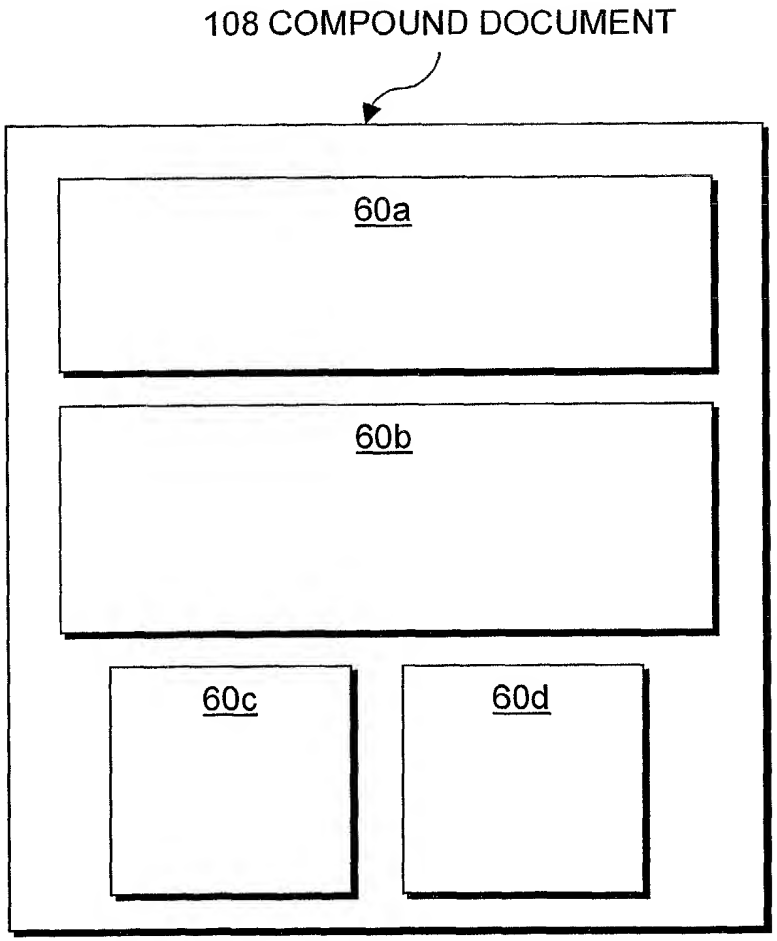

FIG. 9